

Islands in the Stream Expedition

2001 Field Season

Dive Summary

Charleston Bump Alternative Site 1

9/28/2001

Charleston Bump, Islands in the Stream

Overview of Dive JSL2-4370 at Charleston Bump

Phil Santos piloted this dive with aft technician Dan Boggess at the site known as Charleston Bump Alternative Site 1 (31.72039 / -77.19473) on 9/28/2001 starting at 15:30:24. Total dive time was 3:34:36 and the maximum depth reached was 1855 feet. Scientific observers were Patrick Harris and Carmelina Livingston. (All times EST)

Dive Objectives. Objectives accomplished during the dive include:

Exploration/Recon	Primary
Filming	Primary
Education/Outreach	Primary
Fish Assessment	Secondary
Benthic Assessment	Secondary
Geologic Assessment	Secondary

Data Collected. Types of data collected during the dive include:

CTD/Data Sonde

Tracking

Rock Samples	1
Sediment Samples	2
Coral Fragments	2
H. dactylopterus	1
Digital Video Tapes	1
Digital Video Tapes	1

Living Marine Resources Abundance

few 2-10; many 11 - 100; abundant >100

Pelagic Fish	Other Benthic
Bottom Fish	Many
Crustacean	Few
Mollusk	Few
Echinoderm	

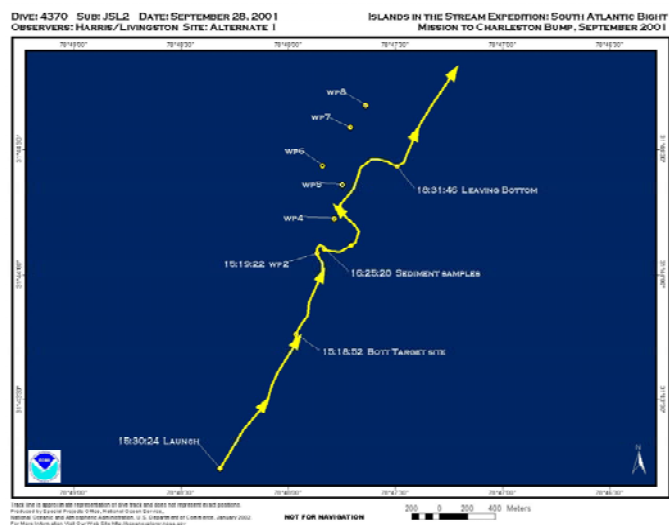
Observations and Comments on Living Marine Resources:

General Comments

None.

Dive Track Description

Dive started on flat hard bottom with a thin veneer of sand. Lots of widely spaced corals with some sponges. Bottom got more rugged as depth increased. Saw large undercut ledges, observed two wreckfish. Continued on a northerly heading and bottom reverted to hard, with the veneer and widely spaced corals and sponges. We continued from waypoint to waypoint, looking for a scarp, but did not find one. Towards the end of the dive the bottom consisted primarily of coarse sediment with no coral or sponge growth, suggesting an area of low current where sediment deposition has occurred. Sighted Laemonema sp. throughout. Relief of features observed during the dive ranged from to meters.



Observed Human Activities

Commercial Fishing

Observed Human Impacts

Discarded Gear	longline
Garbage	sheet

Overall Dive Site Ratings

1 = low; 10 = high

Uniqueness	7
Health	9
Disturbance	1
Biodiversity	4

Observed Fish Abundance

few 2-10; many 11 - 100; abundant >100

Chlorophthalmus agassizi	Few
Helicolenus dactylopterus	Few
Laemonema barbatulum	Many
Polyprion americanus	Few
Lophius sp.	Few
Chaunax pictus	Few



Prepared by :
National Oceanic and Atmospheric Administration
9/28/2001